

**SYSTEMS AND METHODS FOR DETECTING DISCONTINUOUS
TRANSMISSION (DTX) USING CYCLIC REDUNDANCY CHECK RESULTS
TO MODIFY PRELIMINARY DTX CLASSIFICATION**

Abstract of the Disclosure

A received information signal is decoded to obtain the received information and to produce at least one feature of the received information signal. The received information signal is preliminarily classified as containing a normal burst or a

5 truncated burst based upon the at least one feature, to obtain a preliminary classification. Cyclic redundancy checking of the received information that is decoded is performed. The received information signal is then further classified as containing a normal burst or a truncated burst based upon the preliminary classification and whether the cyclic redundancy checking is valid, to obtain a further

10 classification. The received information signal may be still further classified as containing a normal burst or a truncated burst based upon the further classification and at least one transition rule for normal bursts and truncated bursts between the received information signal and a previously received information signal.